

Patent- og
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Structure for heat-insulation of flat roofs - comprises closed cell
foamed plastic layer and top-layer of filled organic binder

Patent Assignee: BASF AG (BADI)

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3423766	A	19850103	DE 3423766	A	19840628	198502 B

Priority Applications (No Type Date): DE 3323522 A 19830630; DE 3423766 A
19840628

Abstract (Basic): DE 3423766 A

Composite structure comprising (A) foamed layer of predominantly
closed cell foamed plastic and (B) a top layer bonded thereto, of
granular inorganic additive and organic binder having water vapour
diffusion equiv. air layer thickness, as measured according to DIN
52615, less than 1.0 m.

Pref. (A) is 3-12 cm. thick, (B) is 0.3-3.0 cm. thick. (A) pref.
comprises extruded polystyrene foam, density 25-60 kg./cub. m. In
prepn. of (B), 10-25 pts. vol. binder and 5-20 pts. vol. water are
pref. used per 100 pts. bulk vol. filler. Glass fibre lattice fabric is
pref. inserted between (A) and (B). Filler pref. comprises 80-100 vol.%
dried pumice granulate and/or river sand of average particle size
1.0-3.0 mm. and 0-20 vol.% river sand or pumice sand with average
particle size 0.1-1.0 mm.

USE/ADVANTAGE - Heat-insulation of flat roofs by bonding onto
water-impermeable roof skin. Structure has good water vapour
permeability, reflects solar radiation well, has good resistance to
fire spread and heat radiation, and low wt.

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Title Terms: STRUCTURE; HEAT; INSULATE; FLAT; ROOF; COMPRISE; CLOSE; CELL;
FOAM; PLASTIC; LAYER; TOP; LAYER; FILLED; ORGANIC; BIND

Derwent Class: A32; P73; Q43; Q45

International Patent Class (Additional): B32B-027/14; E04B-001/78;

E04D-003/35

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A12-R05; A12-R06; A12-S04B

Plasdoc Codes (KS): 0011 0231 0304 0486 0487 3183 3181 1373 1601 2020 2198

2214 2294 2445 2493 2499 2504 2538 2540 2592 2646 2654 2665 2679 3255

3256 3258 2682 2696 2697 2726 3275

Polymer Fragment Codes (PF):

001 014 034 04- 055 056 074 081 143 146 199 220 221 226 231 273 308 309
336 341 359 397 400 415 436 441 443 448 472 473 477 491 492 50& 50-
516 521 539 540 57& 575 58& 581 596 604 606 609 613 616 617 623 626
651 688 720 723

Derwent Registry Numbers: 5214-U

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TITLE: Composite elements for thermal
insulation of flat roofs

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INT-CL (IPC): E04D003/35, E04B001/78 , B32B027/14

EUR-CL (EPC): B32B027/14 ; E04D003/35

US-CL-CURRENT: 428/117

ABSTRACT:

CHG DATE=19990617 STATUS=O> Prefabricated composite
elements for thermal
insulation of flat roofs comprising a foam layer of a
predominantly
closed-celled foam plastic and, bonded thereto, a cover
layer of a granular

inorganic aggregate and an organic binder. The composite element is characterised by its high water vapour permeability, expressed by a water vapour diffusion equivalent air layer thickness according to DIN 52615 of less than 1.0 m.